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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/520,927	03/08/2000	Edward J. Cleary JR.	6960 US	1687
7:	590 07/30/2002			
Francis I Gray			EXAMINER	
Tektronix Inc PO Box 500			YANG, RYAN R	
Delivery Station Beaverton, OR			ART UNIT PAPER NUMBER 2672 DATE MAILED: 07/30/2002	
Deaverton, Ore	<i>31011</i>			

Please find below and/or attached an Office communication concerning this application or proceeding.

SU

15	Application No.	Applicant(s)				
	09/520,927	CLEARY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ryan R Yang	2672				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep y within the statutory minimum of thirty will apply and will expire SIX (6) MONTI , cause the application to become ABA	ly be timely filed (30) days will be considered timely. HS from the mailing date of this communic NDONED (35 U.S.C. § 133).	ation.			
Status 1) Responsive to communication(s) filed on						
	— · iis action is non-final.					
2a) This action is FINAL. 2b) Th3) Since this application is in condition for allows		ers, prosecution as to the mer	its is			
closed in accordance with the practice under Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	١.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2 and 7-9</u> is/are rejected.	⊠ Claim(s) <u>1,2 and 7-9</u> is/are rejected.					
7)⊠ Claim(s) <u>3-6 and 10-15</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acce	pted or b)☐ objected to by the	e Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) ☐ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority document 	s have been received.					
2. Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prio application from the International But* See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. §	119(e) (to a provisional applie	cation).			
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 	= · ·					
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2 	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)				
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DETAILED ACTION

- 1. Claims 1-15 are pending in this application. Claim 1 is independent claims. This action is non-final.
- 2. The present title of the invention is "Surround Sound Display".

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 and 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Bradford (US 4,691,358).

As per claim 1, Bradford discloses a surround sound display comprising: a sound stage image (Figure 3A);

a correlation meter scale for each stereo channel of the sound stage image (Figure 3A); and

markers related to the correlation meter scale that represent the correlation between the stereo channels (see Figure 3B-3F).

5. As per claim 7, Bradford demonstrated all the elements as applied in the rejection of independent claim 1, supra, and further discloses the markers comprise a

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pointer for each stereo channel, the location of the pointer along the correlation meter scale indicating the correlation between the stereo channels (Figure 3B-3F).

6. As per claims 8 and 9, Bradford demonstrated all the elements as applied in the rejection of claim 7, supra, and further discloses the markers comprise a fill area spanning the correlation meter scales for the stereo channels, the width of the fill area indicating the correlation between the stereo channels and the thickness of the fill area indicates the amplitude of the stereo channels (Figure 3C-3F).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bradford as applied to claim 1 above, and further in view of Gibson (5,812,688).

As per claim 2, Bradford demonstrated all the elements as applied in the rejection of independent claim 1, supra.

It is noted that Bradford does not explicitly disclose the sound stage image comprises speaker images positioned at a appropriate positions of the display to represent sound sources, however, this is known in the art as taught by Gibson. Gibson discloses a visual image representation method of audio signals in which the speaker

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images are positioned at a appropriate positions of the display to represent sound source.

Thus, it would have been obvious to one of ordinary skill in the art to incorporate the teaching of Gibson into Bradford because Bradford discloses a display method to display correlation of sound and Gibson discloses a method of displaying the sound source in order to closely simulate the aural environment.

Allowable Subject Matter

9. Claims 3-6 and 10-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Inquiries

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Ryan Yang** whose telephone number is **(703) 308-6133**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Michael Razavi**, can be reached at **(703) 305-4713**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ryan Yang July 23, 2002

> MICHAEL RAZAVI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600